CLAIMS

We claim:

1. A method for preparing a photoresist layer for e-beam inspection comprising:

out-gassing said photoresist layer whereby an outgas from said photoresist layer during said e-beam inspection is substantially prevented.

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2. The method for of claim 1 wherein:

said step of out-gassing said photoresist layer further comprising a step of implanting ions into said photoresist layer to activate an out-gassing from said photoresist layer.

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3. A method for preparing a photoresist layer for e-beam inspection comprising:

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increasing a conductivity of said photoresist layer whereby electric charging of said photoresist layer during said ebeam inspection is substantially prevented.

4. The method for of claim 3 wherein:

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said step of increasing a conductivity of said photoresist layer further comprising a step of implanting conductive ions into said photoresist layer to increase a conductivity of said photoresist layer.

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5. The method for of claim 3 wherein:

said step of increasing a conductivity of said photoresist layer further comprising a step of implanting carbon ions into said photoresist layer.

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6. The method for of claim 3 wherein:

said step of increasing a conductivity of said photoresist layer further comprising a step of implanting indium ions into said photoresist layer.

7. The method for of claim 3 wherein:

said step of increasing a conductivity of said photoresist layer further comprising a step of implanting Sb ions into said photoresist layer.

8. The method for of claim 3 wherein:

said step of increasing a conductivity of said photoresist layer further comprising a step of implanting silicon ions into said photoresist layer.

9. The method for of claim 3 wherein:

said step of increasing a conductivity of said photoresist layer further comprising a step of implanting metallic ions into said photoresist layer.

10. The method for of claim 3 wherein:

said step of increasing a conductivity of said photoresist layer further comprising a step of implanting a conductive ions at an implanting energy approximately 1000 ev into said photoresist layer.

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11. The method for of claim 3 wherein:

said step of increasing a conductivity of said photoresist layer further comprising a step of implanting a conductive ions having an ion dosage in a approximate range 10^{16} /cm² to 10^{18} /cm² into said photoresist layer.

12. The method for of claim 3 wherein:

said step of increasing a conductivity of said photoresist layer further comprising a step of plasma immersing ion implant a conductive ions into said photoresist layer.

13. The method for of claim 3 further comprising:

out-gassing said photoresist layer whereby an outgas from said photoresist layer during said e-beam inspection is substantially prevented.

14. The method for of claim 13 wherein:

said step of out-gassing said photoresist layer further comprising a step of implanting ions into said photoresist layer to activate an out-gassing from said photoresist layer.

15. A photoresist layer for integrated circuit manufacture processed for e-beam inspection comprising:

an out-gas content less than 0.5 percents thus substantially prevent out-gassing from said photoresist layer during said e-beam inspection.

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	16.	A photoresist layer for integrated circuit manufacture
. 1	processed for	r e-beam inspection comprising:
5		an electric resistivity less than 2000 ohm/cm ² thus substantially prevent an electric charging of said photoresist layer during said e-beam inspection.
	17.	A photoresist layer for integrated circuit manufacture
	comprising:	
10	1 0	
		implanted conductive ions for increasing a conductivity of said photoresist layer.
	18.	The photoresist layer for of claim 17 wherein:
15	10.	The photoresist layer for or claim 17 wherein.
		said implanted conductive ions further comprising implanted carbon ions.
20	19.	The photoresist layer for of claim 17 wherein:
		said implanted conductive ions further comprising implanted indium ions.
•	20.	The photoresist layer for of claim 17 wherein:
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		said implanted conductive ions further comprising implanted Sb ions.
30	21.	The photoresist layer for of claim 17 wherein:
		said implanted conductive ions further comprising implanted silicon ions.

22. The photoresist layer for of claim 17 wherein:

said implanted conductive ions further comprising implanted metallic ions.

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